

Paradigms to Consider for CCSSM

Standards for Mathematical Practice	4 Claims of Smarter Balanced Assessments	Depth of Knowledge (DOK)	5Cs of P21	College & Career Readiness	Standards for Science & Engineering Practice	Student Practices in R, W, S, L, & Language Use
<ol style="list-style-type: none"> 1. Make sense of problems & persevere in solving them. 2. Reason abstractly & quantitatively. 3. Construct viable arguments & critique the reasoning of others. 4. Model with mathematics. 5. Use appropriate tools strategically. 6. Attend to precision. 7. Look for & make use of structure. 8. Look for & express regularity in repeated reasoning. <p>Common Core Mathematics Standards</p>	<ol style="list-style-type: none"> 1. Concepts & Procedures: Explain & apply math. concepts & interpret & carry out math. procedures with precision & fluency. 2. Problem Solving: Solve a range of complex well-posed problems in pure & applied math. making productive use of knowledge & problem solving strategies. 3. Communicating Reasoning: Clearly & precisely construct viable arguments to support their reasoning & to critique reasoning of others. 4. Modeling & Data Analysis: Students analyze complex, real-world scenarios & construct & use math. models to interpret & solve problems. <p>Smarter Balanced Assessment Consortium</p>	<p>Level 1: Recall:</p> <ul style="list-style-type: none"> • Recall of information • Performing simple algorithm • Applying a formula. <p>Level 2: Skills & Concepts:</p> <ul style="list-style-type: none"> • Engagement of mental processing beyond a habitual response • Make some decisions on how to approach the work. <p>Level 3: Strategic Thinking:</p> <ul style="list-style-type: none"> • Reasoning, planning, using evidence, & higher level thinking. <p>Level 4: Extended Thinking:</p> <ul style="list-style-type: none"> • Complex reasoning, planning, developing, & thinking over extended time. • Make connections, relate ideas <i>within</i> & <i>among</i> content areas, • Select one approach among many on how to solve a situation. <p>c-schools.net/dynamic/math/webbs-depth.pdf</p>	<p>Creativity & Innovation</p> <ul style="list-style-type: none"> ▪ Think Creatively ▪ Work Creatively with Others ▪ Implement Innovations <p>Critical Thinking & Problem Solving</p> <ul style="list-style-type: none"> ▪ Reason Effectively ▪ Make Judgments & Decisions ▪ Solve Problems <p>Collaboration</p> <ul style="list-style-type: none"> ▪ Collaborate with others <p>Communication</p> <ul style="list-style-type: none"> ▪ Communicate clearly <p>Construction of new Knowledge</p> <ul style="list-style-type: none"> ▪ Construction & Exploration of new understandings of knowledge through the integration of content from one subject area to another. <p>Partnership for 21st Century Skills</p>	<p>Academic Skills</p> <ul style="list-style-type: none"> ▪ <i>Core academic skills</i> & ability to apply those skills to concrete situations. <p>Employability Skills</p> <ul style="list-style-type: none"> ▪ critical thinking, adaptability, problem solving, oral & written communications, collaboration & teamwork, creativity, responsibility, professionalism, ethics, & technology use. <p>Technical Skills</p> <ul style="list-style-type: none"> ▪ <i>job-specific skills</i> related to a specific career pathway. <p>CTE</p>	<ol style="list-style-type: none"> 1. Asking questions (science) & defining problems (engineering) 2. Developing & using models 3. Planning & carrying out investigations 4. Analyzing & interpreting data 5. Using math. & computational thinking 6. Constructing explanations (science) & designing solutions (engineering) 7. Engaging in argument from evidence 8. Obtaining, evaluating, & communicating information 	<ol style="list-style-type: none"> 1. Demonstrate independence as readers, writers, speakers, listeners, & language users. 2. Build strong content knowledge. 3. Respond to the varying demands of audience, task, purpose, & discipline. 4. Comprehend as well as critique. 5. Provide evidence. 6. Care about precision. 7. Craft & look for structure. 8. Use technology strategically & capably. 9. Come to understand other perspectives & cultures.

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